THE ALBERTA SWINE IMPROVEMENT PROGRAM ANNUAL REPORT 1987

Agriculture Canada

Alberta AGRICULTURE

Pork Industry Branch

89-06010/

1987 ANNUAL REPORT

Compiled by
Arthur J. Lange, Supervisor, Swine Improvement

The Swine Improvement Program in Alberta is a joint Federal-Provincial program for both seedstock and commercial swine producers.

The performance testing program for breeding stock producers is a two part program consisting of:

1. An "on farm" performance test of backfat and growth rate of boars and gilts performed by provincial staff.
2. A central station test of boars for backfat and average daily gain at either the Leduc or Lacombe test stations which are owned and operated by Agriculture Canada.

Commercial producers may use the ultrasonic home test program for the selection of gilts within their herd providing they meet certain basic requirements.

The Sow Productivity and Management Program is available for either breeding stock or commercial operators to record production parameters of their sows on an individual and herd basis.

The Alberta Swine Improvement Advisory Committee (ASIAC) for 1987 consisted of the following members:

F. W. Schuld (Chairman) Head, Pork Industry Branch, Alberta Agriculture
M. Southwood (Secretary) - Livestock Production Officer, Livestock Development Branch, Agriculture Canada
A. Lange - Supervisor, Swine Improvement, Alberta Agriculture representative
C. Gerry - Alberta Agriculture appointed producer
B. Reiter - Alberta Agriculture appointed producer
J. Vandendool - Alberta Agriculture appointed producer
J. Knobben - Alberta Swine Breeders Association appointed producer
G. Matejka - Alberta Swine Breeders Association appointed producer
W. Weber - Alberta Swine Breeders Association appointed producer
R. Barrett - Alberta Pork Producers Marketing Board representative
B. Milne - Western Hog Growers Association representative

Advisory Members:
Dr. F. X. Aherne - Swine Nutritionist, University of Alberta
Dr. A. P. Sather - Animal Geneticist, Lacombe Research Station
Dr. C. Schipper - Swine Herd Health Program, Alberta Agriculture

Ex-Officio Members:
K. J. Spiller, Director, Animal Industry Division, Alberta Agriculture
G. Gorrell, Regional Director, Agriculture Development Branch, Agriculture Canada

THE ALBERTA SWINE IMPROVEMENT PROGRAM IN 1987

The data portion of this report is divided as follows:

PART A General Data

Table I (page 4)	Alberta Swine Improvement Program - Performance Testing Summary 1983-1987
Table II (page 5)	Boars Home Tested 1977-87
Table III (page 5)	Gilts Home Tested 1977-87

PART B Test Station Results

Table IV (page 6)	1987 Test Station Summary Leduc (Nisku) Station
(page 7)	1987 Test Station Summary Lacombe Station
Table IVA (page 8)	1986 Test Station Summary Leduc (Nisku) Station
(page 9)	1986 Test Station Summary for Lacombe Station
Table V (page 10)	Culling Information (Reason for Culling) Leduc Station 1987 and 1986 Lacombe Station 1987 and 1986
pgs 11-14	1987 Test Station Sire Summaries
Table VI (page 15)	Boar Sale Activity in Alberta 1977-87

PART C Home Test Results

Table VII (page 16)	Alberta Swine Home Testing Activity 1987 Summary
Table VIIA (page 16)	Alberta Swine Home Testing Activity 1986 Summary
Table VIII (page 17)	Performance Figures for Home Tested Boars - By Breed 1987 and 1986
Table IX (page 17)	Performance Figures for Home Tested Gilts - By Breed 1987 and 1986
Table X (page 18)	Performance Figures by Breed for Seedstock and Commercial farms.
Table XI (pgs 19-28)	Home Test Averages by Sex and Breed for All Farms
Table XII (page 29)	Sow Productivity and Management Program.

In 1987 changes in the Alberta Swine Improvement that had been looming for some time started to occur. A major project started in March when Deloitte, Haskins and Sells Associates was selected as the consultant to perform a study to look at the future direction of performance testing (both home and station sow productivity program) plus the AI centre and the marketing of swine genetics domestically and abroad.

The study was finalized near the end of 1987. It concluded that the Alberta Swine Breeders Association (ASBA) should take over operation of at least the Leduc test station since the federal government was anxious to privatize it and they were the only body in a position to operate it. The study also recommended that ASBA consider forming a new body tentatively called the Alberta Swine Genetic Improvement Corporation to operate the test station and AI unit in the future if the test station experience proved positive. For the Home (farm) Test program it was recommended that it remain with the province until the other aspects were functioning satisfactorily with the private corporation.

The province signed an agreement in July to take over data entry for all performance testing (ROP) programs from the federal government. The federal government supplied the computer hardware and programs and the provincial government supplied office space and data entry staff. As a result, provincial staff started processing sow productivity in November. In November and December 1186 litters were entered. The performance data processing will follow in 1988.

Three issues of Estimated Breeding Values (EBV's) for sires and dams were received from Ottawa (March, September and November) and these were distributed to breeders and incorporated in the Home Test Report and Test Station Sale Notices.

The performance figures for the year show that backfat and days to 90kg continue to move down on Home Test which is very encouraging. Numbers tested on the farm are up substantially. (19,147 in 1987 vs 18,212 in 1986). Even the number of boars station tested increased slightly in spite of the much higher user fees instituted by Agriculture Canada in 1985. These are positive signs that there is strong support for performance tested breeding stock in the commercial hog sector.

There were many organizational and staff changes during the year. The Agriculture Canada staff supervising the test stations moved to the Agriculture Department Branch in April. Andrew Simpson was confirmed as test station manager at Leduc in January of 1986 after the official retirement of Bill Nash in November of 1985. Lorne Tannas who was on temporary staff as the assistant at Leduc since November of 1985, left on October 1, 1987 to take a permanent position at the Lacombe research station. Subsequently, Jim Lamb replaced him on a temporary basis. After 9 years as the assistant at Lacombe station, George Langrock left in October of 1987 to take a permanent position at the research station swine barn.

During the year we also had to bid goodbye to two longtime swine breeders, Rod MacMillan of Clandonald and Jack Hutchinson of Warner. Both passed away and their commitments to performance testing were much appreciated and will be missed.

PART A - GENERAL DATA

TABLE I

ALBERTA SWINE IMPROVEMENT PROGRAM
PERFORMANCE TESTING SUMMARY
1983 - 1987

Boars Station Tested	1983	1984	1985	1986	1987
Number	780	872	794	638	652
Avg. Backfat thickness (mm)	15.2	14.0	14.5	14.4	14.1
Avg. daily gain (kg)	0.93	0.91	0.92	0.91	0.90
Avg. feed conversion	2.46	2.45	2.41	2.48	2.47
Avg. age to 90 kg. (days)	148	144	145	144	145
Boars Home Tested					
Number	5,851	6,164	5,641	5,461	6216
Avg. backfat thickness (mm)	13.9	14.1	14.3	13.8	13.3
Avg. age to 90 kg. (days)	159	157	157	155	154
TOTAL BOARS TESTED	6,631	7,036	6,435	6,035	6,868
Gilts Home Tested					
Number	11,809	12,004	12,474	11,651	12,931
Avg. backfat thickness (mm)	14.8	15.4	15.6	15.2	14.4
Avg. age to 90 kg. (days)	167	171	169	167	163
TOTAL PIGS TESTED	18,440	19,040	18,909	17,750	19,799

TABLE II

BOARS HOME TESTED - 1977 - 1987

YEAR	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE AT 90 KG. (days)
1977	1,965	15.8	163
1978	2,676	15.4	167
1979	3,937	15.0	172
1980	4,207	14.6	171
1981	4,201	14.4	166
1982	4,750	13.9	162
1983	5,851	13.9	159
1984	6,164	14.1	157
1985	5,641	14.3	157
1986	5,461	13.8	155
1987	6,216	13.3	154

TABLE III

GILTS HOME TESTED - 1977 - 1987

1977	4,390	17.4	172
1978	7,790	16.8	177
1979	9,988	16.0	177
1980	9,664	15.7	174
1981	9,778	15.8	174
1982	10,990	15.2	172
1983	11,809	14.8	167
1984	12,004	15.4	171
1985	12,474	15.6	169
1986	11,651	15.2	167
1987	12,931	14.4	163

PART B: TEST STATION RESULTS

TABLE IV

1987 TEST STATION SUMMARY

LEDUC (NISKU) STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	RED WATTLE	TOTAL
NUMBER ENTERED	238	56	24	24	8	6	356
NUMBER TESTED	233	53	22	24	7	2	341
AVERAGE BACKFAT at 90 kg (mm)	13.8	13.8	14.0	13.0	14.6	23.2	13.9
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.88	0.86	0.87	0.91	0.88	0.94	0.88
FEED CONVERSION (kg feed/kg gain)	2.45	2.54	2.55	2.45	2.57	2.45	2.47
AVERAGE AGE @ 90 kg (days)	146	143	145	148	156	140	146
NUMBER CULLED	125	32	14	12	5	6	194
NUMBER UNSOLD	34	3	4	1			42
NUMBER SOLD	79	21	6	11	.3		120
TOTAL PRICE	41,700.	11,425.	2400.	5,075.	1,275.		61,875.
AVERAGE PRICE	527.85	544.05	400.00	461.36	425.00		515.63

TABLE IV

1987 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	RED WATTLES	TOTAL
NUMBER ENTERED	228	36	24	18	8	4	2	320
NUMBER TESTED	220	36	23	18	8	4	2	311
AVERAGE BACKFAT @ 90 kg (mm)	14.1	14.1	15.0	13.9	14.6	13.7	27.0	14.3
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.92	0.86	0.92	0.94	0.88	0.87	0.99	0.91
FEED CONVERSION (kg feed/kg gain)	2.43	2.58	2.49	2.50	2.45	2.41	2.57	2.47
AVERAGE AGE @ 90 kg (days)	144	143.	141.	149.	150.	153.	137	144.
NUMBER CULLED	103	22	18	5	5	2	2	157
NUMBER UNSOLD	24	3	3	5				35
NUMBER SOLD	91	11	3	8	3	2		118
TOTAL PRICE	46,835.	5,850.	1,100.	3,750.	1,025.	725.		59,285.
AVERAGE PRICE	514.67	531.82	366.67	468.75	341.67	361.50		502.42

TABLE IVa

1986 TEST STATION SUMMARY

LEDUC (NISKU) STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	264	36	16	14	4		334
NUMBER TESTED	253	35	16	14	4		322
AVERAGE BACKFAT at 90 kg (mm)	14.3	13.6	15.2	13.3	14.2		14.2
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.91	0.85	0.88	0.89			0.90
FEED CONVERSION (kg feed/kg gain)	2.46	2.62	2.59	2.55	2.63		2.49
AVERAGE AGE @ 90 kg (days)	144	145	142	154	151		144
NUMBER CULLED	150	23	10	9	3		198
NUMBER UNSOLD	19	3	1	2			25
NUMBER SOLD	92	10	6	2	1		111
TOTAL PRICE	47,685	4,815	1.785	1.200	350		55,835
AVERAGE PRICE	518.32	481.50	297.50	600	350		503.02

TABLE IVa

1986 STATION TEST SUMMARY

LACOMBE STATION

	YORKSHIRE	LANDRACE	LACOMBE	HAMPSHIRE	DUROC	CROSSBRED	TOTAL
NUMBER ENTERED	218	50	8	18	8	2	304
NUMBER TESTED	213	50	8	18	8	2	299
AVERAGE BACKFAT @ 90 kg (mm)	14.9	14.3	15.1	13.3	14.3	14.9	14.6
AVERAGE DAILY GAIN 30-90 kg (kg/day)	0.94	0.89	0.94	0.93	0.85	0.95	0.93
FEED CONVERSION (kg feed/kg gain)	2.46	2.55	2.53	2.47	2.47	2.35	2.47
AVERAGE AGE @ 90 kg (days)	143	143	144	148	158	137	144
NUMBER CULLED	121	29	6	6	6	1	169
NUMBER UNSOLD	17	5					26
NUMBER SOLD	76	16	2	12		1	109
TOTAL PRICE	37,450	0.750	1,100	5,275	775	300	54,650
AVERAGE PRICE	492.76	609.37	550.00	439.58	387.50	300	501.38

TABLE V

CULLING INFORMATION

REASONS FOR CULLING: 1987 & 1986

	LEDUC TEST STATION				LACOMBE TEST STATION			
	1987	%**	1986	%**	1987	%**	1986	%**
Total Culled*	194	54	198	59	157	49	169	56
Performance	150	42	165	49	123	38	130	43
Feet and Legs	22	6	24	7	25	7.8	30	10
Underline***								
Testicles	1	0.3					1	0.3
Rupture			2	0.6				
Abscess								
Died	2	0.6	4	1	3	0.9	6	2
Shaking			3	1			2	0.7
Returned to Breeder	2	0.6					1	0.3
Bloody Urine								
Ridgling								
Enlarged Sheath	2	0.6						
Ulcers	1	0.3						
Prolapsed Anus	1	0.3						
Undershot Jaw								
Illness	3	0.8			2	0.6		
Lack of Condition	4	1.1					5	1.6
Sent to Lab								
Halothane	3	0.8	2	0.6	3	0.9		
Castrated	3	0.8	2	0.6	1	0.3		
Other								
Total Entered	356		334		320		304	

* Total pigs culled may be for one or more reasons.

** % shown is calculated as a proportion of total pigs entered.

***Boars with defective underlines are not culled but moved to the end of the sale order and announced as such to the buyers.

1987 TEST STATION SIRE EVALUATIONS

Listed below are all sires who had progeny tested in the Alberta stations. The results are shown as deviations from the average. A minimum of 8 progeny are required for a sire evaluation. The coding following the sires' identification is thus:

N - is a new evaluation started and completed in 1987.

C - is an evaluation started in a previous year and completed in 1987.

U - is an evaluation completed in 1986 with additional progeny tested in 1987.

It should be remembered that the desirable sires exhibit the following characteristics:

- negative figures for backfat, feed conversion and age
- positive figures for average daily gain
- index value over 100

Age and feed conversion are not included in the test station index but are shown for information only.

A.I. sire information is shown only once at the end. Results for these are taken from progeny submitted by many breeders.

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Acadia Breeders	RITR 505U	York	2	Incomplete				
	ARHL 739U	Land	2	Incomplete				
	ARHL 552U	Land	2	Incomplete				
Agra Farms	ARHL 311T	York	6	Incomplete				
	ARHL 521T	York	4	Incomplete				
	ARHL 827T	York (C)	10	-2.3	+0.02	+0.04	-7.3	123.6
	RITR 505U	York (N)	24	-0.2	+0.07	-0.03	-10.8	118.2
	ARHL 832T	Land	2	Incomplete				
	ARHL 552U	Land	2	Incomplete				
	AOUD 1803U	Land	2	Incomplete				
	ARHL 39U	Land	6	Incomplete				
Bloomsbury Farms	WM 1302U	York	2	Incomplete				
	BL 505U	Lac	2	Incomplete				
	BL 1106U	Lac	2	Incomplete				
	BL 1108U	Lac	1	Incomplete				
Duff, D.	DUFF 544T	Land	4	Incomplete				
	MCMC 8T	Land	4	Incomplete				
Eringfeld, B.	KKEF 3447S	York	4	Incomplete				
	KKEF 1304S	York	2	Incomplete				
	AOGK 371T	York	3	Incomplete				
	KKEF 3084T	York (N)	8	+0.6	-0.11	+0.14	0.0	71.3
	AREE 192U	York (N)	8	0.0	-0.03	-0.28	0.0	95.2

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Five Lakes Farms	JKAA 0792P	York (U)	45	-0.2	+0.02	+0.03	-0.2	104.6
	AOET 1395S	York (U)	22	-0.6	+0.46	-0.03	-2.7	116.6
	RITR 964T	York (N)	9	-0.8	-0.03	+0.15	0.0	97.6
	JKAA 1140T	York	2	Incomplete				
	JKAA 1430T	York	2	Incomplete				
	JKAA 904U	York	2	Incomplete				
	JKAA 2403U	York	2	Incomplete				
	JKAA 4207U	York	2	Incomplete				
	JKAA 5005U	York (N)	12	-0.1	-0.03	+0.02	+4.3	93.8
	JKAA 9201U	York	4	Incomplete				
	KR 1303S	Lac (U)	24	-0.1	0.00	+0.07	-0.6	98.9
	JA 110T	Lac (C)	8	+0.06	-0.01	+0.08	+4.9	92.6
	JA 2202U	Lac	3	Incomplete				
	JA 5204U	Lac	2	Incomplete				
	JA 11201U	Lac	2	Incomplete				
	JKAA 351T	Hamp	2	Incomplete				
	AOJW 384T	Hamp	6	Incomplete				
	JKAA 1212T	Hamp	2	Incomplete				
	JKAA 1455T	Hamp	2	Incomplete				
	JKAA 1607U	Hamp	2	Incomplete				
	JKAA 8103U	Hamp	2	Incomplete				
Gwynne Vista Farms	AOGK 741T	York (N)	14	-1.0	0.00	-0.02	-3.1	108.5
	GWYN14308T	York	2	Incomplete				
	JA 522S	Lac (N)	14	+0.3	-0.03	-0.02	-2.9	105.6
	KR 8904S	Lac	3	Incomplete				
Knight, Wayne	RRW 6U	Reds	4	Incomplete				
Knobben, Gary	AREE 352S	York	4	Incomplete				
Knobben, John	ROSE 102U	York	2	Incomplete				
	GARY 42S	York	2	Incomplete				
Matejka, George	RITR 655S	York (U)	24	-1.7	-0.01	-0.02	0.0	113.2
	KKEF 2186S	York (U)	16	-0.2	+0.01	+0.07	-1.4	103.3
	KKEF 2193S	York (U)	14	-1.1	0.00	-0.05	+2.8	110.5
	KKEF 2641S	York (C)	8	-0.6	0.00	+0.11	0.0	106.5
	KKEF 2701S	York (C)	12	-0.6	-0.04	0.08	0.0	98.6
	ACUT 124T	York (U)	16	-1.2	+0.01	-0.08	0.0	112.8
	DOUG 354T	York (N)	21	-2.2	0.00	-0.07	+1.6	119.3
	KKEF 1494T	York (C)	10	0.0	+0.02	-0.09	+3.4	105.4
	KKEF 1861T	York	6	Incomplete				
	KKEF 2435T	York	2	Incomplete				
	KKEF 2482T	York	2	Incomplete				
	KKEF 2485T	York	2	Incomplete				
	KKEF 2873T	York	2	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (kg/day)	Feed Conv.	Age (days)	Index
Matejka, George cont'd	KKEF12702T	York	2	Incomplete				
	RITR 33U	York (N)	10	-0.2	+0.01	-0.02	-0.6	104.9
	KKEF 342U	York (N)	8	-0.7	-0.04	+0.06	+1.4	97.0
	KKEF 423U	York	2	Incomplete				
	KKEF 665U	York	6	Incomplete				
	RITR 775U	York	2	Incomplete				
	KKEF 1950U	York	2	Incomplete				
	KKEF 1968U	York	4	Incomplete				
Matejka, Steve	SMBL 2500T	Duroc	2	Incomplete				
	JKAA 1460T	Hamp	2	Incomplete				
	HILL 68U	Duroc	1	Incomplete				
Matejka, Tony	TONY 1970U	Land	2	Incomplete				
Morinville Colony	GARY 10S	York	2	Incomplete				
	JKAA 1061T	York	2	Incomplete				
	MCMC 24U	York	2	Incomplete				
	ARHL 948S	Land	4	Incomplete				
	MCMC 021T	Land	6	Incomplete				
	DUFF 710T	Land	2	Incomplete				
	MCMC 32U	Land	2	Incomplete				
	MCMC 85U	Land	2	Incomplete				
	ARHL 552U	Land	2	Incomplete				
	JKAA 3102U	Hamp	2	Incomplete				
	NP 4004U	Hamp	6	Incomplete				
Papenhuyzen, C.	ASUS 49S	Hamp (C)	12	0.0	+0.02	-0.05	0.0	103.5
	AIHO 51T	Duroc	2	Incomplete				
Reiter Farms	RITR 526S	York	7	Incomplete				
	JKAA 562S	York	4	Incomplete				
	KKEF 1053S	York (U)	36	-0.6	+0.05	-0.09	-3.4	117.3
	ACUT 297T	York (U)	10	+2.3	+0.05	+0.11	-6.1	90.8
	KKEF 440T	York (U)	28	-0.4	0.00	-0.02	0.0	104.2
	RITR 664T	York (U)	24	-0.1	+0.04	-0.02	-4.6	109.1
	KKEF 662U	York	3	Incomplete				
	TONY 1061S	Land	2	Incomplete				
	TONY 615U	Land (N)	10	+0.6	+0.05	-0.08	-1.0	107.6
	AHKP 580T	Hamp (N)	12	-0.4	-0.02	+0.02	0.0	100.9
	HILL 161T	Duroc (N)	8	+0.6	-0.02	+0.06	0.0	90.8
Roeske, Murray	ROSE 336T	York (C)	14	+0.6	-0.06	+0.07	0.0	79.2
	KKEF 532T	York (U)	17	+1.2	-0.02	-0.03	-4.3	85.5
	ROSE 106U	York (N)	10	0.0	-0.10	+0.05	+2.5	78.5
	ROSE 185U	York	4	Incomplete				
	ROSE 193U	York	4	Incomplete				
Turko, Daniel	GARY 315T	York	2	Incomplete				

Owner	Sire	Breed	Total Boars Tested	Fat (mm)	A.D.G. (Kg/day)	Feed Conv.	Age (days)	Index
Wakeena Farm	RITR 505U	York	2	Incomplete				
	RITR 512U	York	4	Incomplete				
	ROYS 43S	Land	2	Incomplete				
	KEEN 430T	Land	2	Incomplete				
	DUFF 171U	Land	4	Incomplete				
Weber Farms Ltd	MILN 293S	York	6	Incomplete				
	AWGF 134T	York	6	Incomplete				
Alberta A.I. Sires	AMBW 514S	York (C)	14	+0.3	+0.02	0.00	-0.5	101
	YRZN 575T	York	4	Incomplete				
	RITR 924T	York (C)	24	-0.5	+0.08	-0.09	-9.4	122
	KKEF 1490T	York	4	Incomplete				
	KKEF 2332T	York (N)	12	+0.3	-0.05	+0.04	+3.4	88
	NPD 8714T	York (N)	12	-1.1	-0.50	+0.03	+6.9	99
	DLDA 557S	Land	6	Incomplete				
	ARHL 313T	Land (N)	11	+0.4	-0.02	-0.06	+4.4	89.7
	AOUD 729T	Land	2	Incomplete				
	EDJL 142U	Land	2	Incomplete				
	ARBU 262U	Land	2	Incomplete				
	AVON 417U	Land	2	Incomplete				
	NE 36U	Lacombe	4	Incomplete				
	AOZM 333T	Hamp	6	Incomplete				
	KTDA 262T	Duroc	2	Incomplete				
	ATJG 04U	Duroc	2	Incomplete				
Ontario A.I. Sires	AMBW 278P	York	6	Incomplete				
	ANZI 400P	York	4	Incomplete				
	ARUW 36S	York	2	Incomplete				
	LMRW 186S	York	2	Incomplete				
	JPVH 2117S	York	4	Incomplete				
	AMBW 166T	York	6	Incomplete				
	ANLG 505T	York (N)	8	-1.1	-0.03	0.00	0.0	103
	EJD 1829N	Land	2	Incomplete				
	BVA 1607T	Land	4	Incomplete				
U.S. A.I. SIRE	IMP 24P	York	4	Incomplete				

TABLE VI

BOAR SALE ACTIVITY IN ALBERTA

1977 - 1987

YEAR	LOCATION	NUMBER SOLD	TOTAL SALES ($)	AVERAGE PRICE ($)
1987	Leduc	120	61,875	515.63
	Lacombe	118	59,285	502.42
		238	121,160	509.08
1986	Leduc	111	55,835	503.02
	Lacombe	109	54,650	501.38
		220	110,485	502.20
1985	Leduc	81	34,055	420.42
	Lacombe	105	48,360	460.57
		186	82,415	443.09
1984	Leduc	129	61,435	476.24
	Lacombe	138	68,470	496.16
		267	129,905	486.54
1983	Leduc	95	40,160	422.74
	Lacombe	128	60,355	471.52
		223	100,515	450.74
In 1983 Leduc Station missed one fill due to interior renovations.				
1982	Leduc	143	63,765	445.91
	Lacombe	136	69,235	509,08
		279	133,000	476.70
1981	Leduc	77	35,435	460.19
	Lacombe	154	81,930	532.01
		231	117,365	508.07
1980	Leduc	100	38,190	382.00
	Lacombe	135	66,590	493.00
		235	104,780	437.50
1979	Leduc	113	45,605	403.58
	Lacombe	175	85,500	488.57
		288	131,105	455.23
1978	Leduc	126	57,545	456.71
	Lacombe	116	52,535	452.89
		242	110,080	454.88
1977	Edmonton	110	46,155	419.59
	Lacombe	112	46,750	417.41
		222	92,905	418.49

PART C: HOME TEST RESULTS

TABLE VII

ALBERTA SWINE HOME TESTING ACTIVITY
1987 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	9	11	57	0.3
20-50	13	16	416	2.2
51-100	8	10	564	3.0
101-200	22	28	3239	16.9
201-500	15	19	4259	22.2
500 & over	13	16	10,612	55.4
TOTAL	80	100	19,147	100.0

TABLE VII (a)

ALBERTA SWINE HOME TESTING ACTIVITY
1986 SUMMARY

Number of Pigs Tested Per Farm	Number of Breeders	% of Breeders	Total Number of Pigs	% of Pigs
20 or less	6	8	68	0.4
20-50	8	11	241	1.4
51-100	9	13	721	4.2
101-200	24	34	3634	21.2
201-500	14	20	3878	22.7
500 & over	10	14	8570	50.1
TOTAL	71	100	17112	100

TABLE VIII

HOME TESTED BOARS - BY BREED

	1987			1986		
BREED	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)
Yorkshire	2444	13.1	154	1830	13.7	156
Landrace	879	13.4	150	685	14.3	153
Lacombe	406	14.1	149	349	14.1	157
Hampshire	356	12.8	162	300	13.2	164
Duroc	257	13.5	156	233	14.3	160
Red Wattle	49	20.4	176			
Crossbred	1825	13.2	155	2064	13.7	153
TOTAL:	6216	13.3	154	5461	13.8	155

TABLE IX

HOME TESTED GILTS - BY BREED

	1987			1986		
BREED	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)	NUMBER TESTED	AVERAGE BACKFAT @ 90 kg (mm)	AVERAGE AGE @ 90 kg (days)
Yorkshire	3018	14.1	161	2762	14.9	164
Landrace	1199	14.1	155	1002	16.0	158
Lacombe	478	15.0	157	409	15.5	167
Hampshire	354	13.5	162	332	13.9	173
Duroc	173	14.6	156	178	15.5	160
Red Wattle	54	22.9	179			
Crossbred	7655	14.5	165	6968	15.2	169
TOTAL	12931	14.4	163	11651	15.2	167

TABLE X

SEEDSTOCK FARMS
49 Active Users

	BOARS			GILTS		
	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE AGE (days)
Yorkshire	2383	13.1	154	2899	14.0	161
Landrace	877	13.4	150	1198	14.1	155
Lacombe	406	14.1	149	478	15.0	157
Hampshire	347	12.8	162	344	13.6	162
Duroc	254	13.5	156	171	14.6	155
Red Wattle	6	15.2	167	6	17.2	179
Crossbred	1632	13.3	155	4344	14.6	163
Total	5905	13.3	154	9440	14.3	161

COMMERCIAL FARMS
31 Active Users

Yorkshire	61	14.6	159	119	14.9	172
Landrace	2	16.0	162	1	11.4	146
Lacombe						
Hampshire	9	12.5	150	10	11.4	167
Duroc	3	15.1	176	2	14.5	201
Red Wattle	43	21.1	177	48	23.6	179
Crossbred	193	12.8	156	3311	14.5	167
Total	311	14.3	160	3491	14.6	168

OVERALL TOTALS

	6216	13.3	154	12,931	14.4	163

TABLE XI

HOME TEST AVERAGES BY SEX AND BREED

As feeding management and environmental factors under which pigs are home tested can vary significantly between the various herds, and since limited numbers do not reflect true averages, the following herd averages should not be considered as a total measure of the genetic merit of the pigs tested in each herd.

SEEDSTOCK FARMS

YORKSHIRE

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Acadia Breeders	M	2	14.3	127
	F	2	13.5	129
Agra Farms	M	171	13.4	150
	F	188	13.9	152
Baert, M.	F	6	13.3	134
Barrett, R. & A.	M	34	13.1	142
	F	30	14.4	148
Bloomsbury Farms	M	105	14.5	145
	F	123	16.4	148
Braat, J.	M	115	11.3	150
	F	208	12.2	157
Brownlee, J.	M	78	13.3	154
	F	76	15.5	164
Carrich Stock Farm	M	2	12.2	174
	F	13	12.1	188
Eringfeld, B.	M	61	13.0	167
	F	108	14.2	173
Five Lakes Farms	M	234	12.9	164
	F	291	13.8	173
Gwynne Vista Farms	M	132	12.4	165
	F	239	13.9	167

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AVERAGE 90 KG. (days)
Knobben, G.	M	50	11.7	152
	F	55	12.4	151
Knobben, J.	M	69	12.1	155
	F	55	12.9	160
Maschmeyer, D.	M	84	14.0	146
	F	67	14.9	149
Maschmeyer, G.	M	55	14.5	144
	F	68	15.2	151
Matejka, G.	M	405	12.4	163
	F	297	13.1	177
McCarthy, J.	M	40	13.9	142
	F	32	15.2	147
Milne, B.	M	154	12.6	149
	F	169	13.3	151
Morinville Colony	M	27	12.1	144
	F	27	13.5	157
Neufeld Farms	M	3	13.3	132
	F	1	13.8	134
Papenhuyzen, C.	M	29	16.9	163
	F	33	18.0	171
Reiter Farms	M	223	12.5	143
	F	341	13.3	153
Rice, R.	M	45	15.0	163
	F	62	14.9	169
Roeske, M.	M	78	13.6	146
	F	189	15.1	157
Turko, D.	M	24	14.9	150
	F	52	16.1	160
Vandenberg, J.	M	63	15.0	154
	F	37	16.6	158
Wakeena Farm	M	10	12.6	156
	F	34	14.6	163

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Weber Farms	M	33	15.0	163
	F	45	15.5	167
West, N. & T.J.	M	44	12.7	150
	F	43	14.7	156
Wilhelm, L.	M	13	17.3	162
	F	8	18.2	170
		LANDRACE		
Agra Farms	M	144	13.3	151
	F	190	13.8	156
Barrett, R. & A.	M	109	14.1	136
	F	105	14.5	138
Braat, J.	M	13	14.7	147
	F	26	14.6	149
Brownlee J.	31	12.1	171	
	F	40	13.0	180
Carrich Stock Farm	M	4	13.2	155
	F	8	13.9	180
Dieterman, B.	M	1	21.4	140
	F	7	16.1	145
Duff, B.	M	6	14.7	139
	F	15	15.6	150
Duff, D.	M	70	13.7	148
	F	138	4.3	150
Eringfeld, B.	M	13	14.9	161
	F	15	14.9	167
Knobben, G.	M	8	12.7	155
	F	6	12.9	150
Knobben, J.	M	25	12.5	154
	F	21	12.2	162
Lakeland College	M	121	14.3	158
	F	227	15.4	163

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Maschmeyer, G.	M	25	13.3	142
	F	27	14.2	146
Matejka, T.	M	40	12.7	165
	F	22	13.8	177
McCarthy, K.	M	18	12.7	130
	F	21	13.4	134
Milne, B.	M	112	12.0	146
	F	100	12.5	150
Morinville Colony	M	66	13.5	146
	F	108	13.7	156
Neufeld Farms	M	6	13.6	145
	F	3	15.8	143
Reiter Farms	M	28	12.9	146
	F	38	14.0	156
Wakeena Farm	M	26	13.1	160
	F	64	12.6	159
West, N. & T.J.	M	11	15.9	157
	F	17	14.1	156
		LACOMBE		
Bloomsbury Farms	M	225	15.2	139
	F	223	16.1	143
Five Lakes Farms	M	99	12.6	162
	F	128	13.6	172
Gwynne Vista Farms	M	82	13.2	161
	F	127	14.3	167
		HAMPSHIRE		
Bloomsbury Farms	M	102	13.0	150
	F	90	13.3	147
Braat, J.	M	15	13.0	147
	F	20	14.6	156
Five Lakes Farms	M	124	12.6	172
	F	96	13.3	173

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Lepp, S.	M	1	13.1	170
	F	4	13.9	181
Matejka, G.	M	3	11.3	189
Matejka, S.	M	2	12.5	164
	F	2	13.5	173
McCarthy, J.	M	2	13.9	160
	F	2	14.1	164
Milne, B.	M	1	14.2	135
	F	4	13.6	151
Morinville Colony	M	21	12.0	160
	F	31	12.8	153
Papenhuyzen, C.	M	35	13.2	172
	F	39	14.9	173
Reiter Farms	M	16	12.7	153
	F	27	13.3	159
Rice, R.	M	16	13.0	163
	F	21	13.6	173
Vandenberg, J.	M	6	15.8	151
	F	1	13.1	149
West, N. & T.J.	M	3	13.0	158
	F	7	14.7	157
	DUROC			
Baert, M.	M	1	14.3	151
	F	4	15.9	157
Braat, J.	M	23	13.0	142
	F	23	15.0	150

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Lakeland College	M	6	12.9	159
	F	7	14.5	158
Maschmeyer, G.	M	69	13.5	150
	F	59	13.2	152
Matejka, S.	M	12	11.5	170
	F	11	14.9	167
Milne, B.	M	4	12.6	153
	F	5	14.8	153
Neufeld Farms	M	51	13.5	163
	F	7	15.7	147
Papenhuyzen, C.	M	5	13.9	182
	F	6	16.6	167
Reiter Farms	M	30	12.4	147
	F	22	14.8	155
Rice, H.	M	6	12.5	156
	F	3	15.8	163
Rice, R.	M	19	15.5	173
	F	5	16.2	177
Vandenberg, J.	M	28	14.7	154
	F	19	16.3	158
CROSSBRED OR COMMERCIAL				
(i.e. any pigs that cannot be identified as belonging to a certain breed).				
Agra Farms	M	4	14.9	136
Baert, M.	M	9	12.9	144
	F	64	15.4	149
Barrett, R. & A.	F	11	14.5	131
Bloomsbury Farms	M	50	14.6	141
	F	119	16.0	142

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Braat, J.	M	98	12.7	142
	F	93	13.9	148
Carrich Stock Farms	M	9	11.7	179
	F	103	13.9	179
Derewianka, C.	M	11	15.1	182
	F	188	16.1	175
Eringfeld, B.	F	10	15.6	179
Groot, C.	M	92	12.4	163
	F	185	13.6	167
Gwynne Vista Farms	M	2	12.1	167
	F	165	14.0	164
Jacobsson, G.	M	1	10.8	167
	F	131	14.1	168
Knobben, J.	M	3	13.3	136
Lakeland College	M	6	16.2	141
	F	12	15.8	148
Lepp, S.	F	77	15.3	186
Maschmeyer, D.	M	3	13.3	149
	F	4	14.7	151
Maschmeyer, G.	M	8	14.0	137
	F	13	15.5	142
Matejka, G.	F	11	13.3	193
Milne, B.	M	1	12.3	150
	F	142	13.5	147
Morinville Colony	M	45	12.6	170
	F	284	14.3	169
Neufeld Farms	M	136	14.1	158
	F	10	15.1	167
Old House Farms	F	118	13.9	173
Olds College	F	556	15.6	156

BREEDER	SEX	NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
Papenhuyzen, C.	F	4	18.7	151
Ranchview Test Barn	M	943	13.2	154
	F	586	13.8	170
Ranchview "B"	M	146	12.7	158
	F	640	14.0	162
Reiter Farms	M	14	13.2	143
	F	2	13.1	141
Rice, R.	M	10	14.9	177
	F	21	15.5	166
Vandenberg, J.	M	23	14.5	150
	F	4	13.6	159
Wakeena Farm	M	2	13.7	170
	F	17	14.3	165
Weber Farms	F	106	15.3	160
West, N. & T.J.	M	8	13.1	167
	F	325	15.3	154
Wierenga, C.	F	127	14.6	167
Woelk Farms, Unit #1	M	4	14.9	175
	F	105	15.3	176
Woelk Farms, Unit #2	M	4	15.6	155
	F	111	15.6	170
		RED WATTLE		
Knobben, J.	M	6	15.2	167
	F	6	17.2	179

COMMERCIAL FARMS

BREEDER	BREED & SEX		NUMBER TESTED	AVERAGE BACKFAT (mm)	AGE TO 90 KG. (days)
'Commercial' breed means any pigs that cannot be identified as belonging to a certain breed. "Red" means Red Wattle.					
A. & J. Tersteeg Farms Ltd.	York	M	15	13.1	176
	York	F	25	14.6	179
	Comm	F	184	13.5	169
Befus, D.	Red	M	3	20.1	157
	Red	F	4	23.4	156
Bontrup, M.	Comm	F	104	14.5	180
Chauvet, M.	Comm	M	16	15.7	140
	Comm	F	143	15.4	150
Deschner Farms	Comm	M	75	12.3	155
	Comm	F	26	13.9	169
Fairview College	York	F	25	11.3	207
	Comm	F	7	11.7	191
G.M.H. Bluebird Ranch	Comm	M	3	17.3	191
	Comm	F	31	15.5	180
Gollnick, L. & H	York	M	31	13.7	173
	York	F	368	15.9	171
Gray, L.	York	M	20	15.4	150
	York	F	36	15.0	156
	Hamp	M	1	12.9	174
	Hamp	F	1	12.9	183
Hall, D.	Comm	M	1	9.5	193
	Comm	F	54	13.7	183
Isaac, H.	Comm	F	120	16.2	193
Hillary, W.	Comm	F	138	14.2	165
Hutterville Colony	York	M	2	12.5	172
	Comm	M	2	13.4	164
	Comm	F	42	16.1	165

COMMERCIAL FARMS

BREEDER	NUMBER BREED & SEX		AVERAGE BACKFAT TESTED	AGE TO 90 KG. (mm)	(days)
Koot, H.	Comm	F	71	14.9	169
Leaning Spruce Farm	Hamp	M	8	12.5	147
	Hamp	F	9	11.3	165
	Comm	F	14	16.0	151
Lenz Farms	Comm	F	165	14.8	167
Leussink, J.	Red	M	22	21.2	182
	Red	F	17	24.1	190
Little, R.R.& G.J.	Comm	F	179	15.2	178
Lyman, A. & S.	York	M	16	16.2	155
	York	F	27	18.2	161
Northern Lights College	Comm	F	171	15.0	183
Pain, S.	Comm	F	366	14.7	170
Pean, T.	Red	F	3	26.5	165
Penalta Red Wattles	Red	M	11	26.1	165
	Red	F	14	25.6	178
Ridge Valley Colony	Comm	M	4	10.1	168
	Comm	F	16	15.6	163
Seidler, R & I.	Comm	F	4	15.7	148
Slingerland, B.	Comm	M	33	11.8	153
	Comm	F	202	12.3	157
Stern, R.	Comm	F	38	16.3	167
Thiessen, R & L	York	M	2	17.1	141
	York	F	3	18.3	141
Triple C Red Wattles	Red	M	7	13.3	191
	Red	F	8	17.9	185
Vandendool, J.	Comm	M	28	12.7	148
	Comm	F	868	13.5	159
Wood, D. & L	Red	F	2	22.9	141

TABLE XII

SOW PRODUCTIVITY AND MANAGEMENT PROGRAM

42 Active Herds

	YORKS	LAND	LAC	HAMP	DUROC	REDS	COMM	TOTAL
Litters Weaned	1,338	356	182	147	18	7	3,980	6,028
Pigs Weaned	11,717	3,237	1,506	1,094	154	51	35,259	53,018
Services/Farrowing	1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.0
Farrowing Interval (Days)	165	161	170	167	156	191	155	158
Weaning to Conception (Days)	18.4	17.8	23.3	20.4	8.4	49.5	12.1	14.5
Total Born/Litter	10.8	10.8	9.9	9.5	10.7	8.9	10.5	10.6
Born Live/Litter	9.7	9.8	9.0	8.3	9.7	8.0	9.6	9.6
Pre-Wean Mortality (%)	10.5	10.8	10.5	9.5	14.0	21.6	10.3	10.4
Pigs Weaned/Litter	8.8	9.1	8.3	7.4	8.6	7.3	8.9	8.8
Litters/Sow/Year	2.2	2.3	2.1	2.2	2.3	1.9	9.4	2.3
Pigs Weaned Per Sow Per Year	19.4	20.9	17.4	16.3	19.8	13.9	21.4	20.2
Kg of Pigs at 21 Days Per Sow Per Year	110.9	122.4	102.1	96.8	110.9	66.3	125.5	118.9

REDS = Red Wattle

The herds which are on the Sow Productivity Program are not necessarily the same ones that are on the performance testing program.